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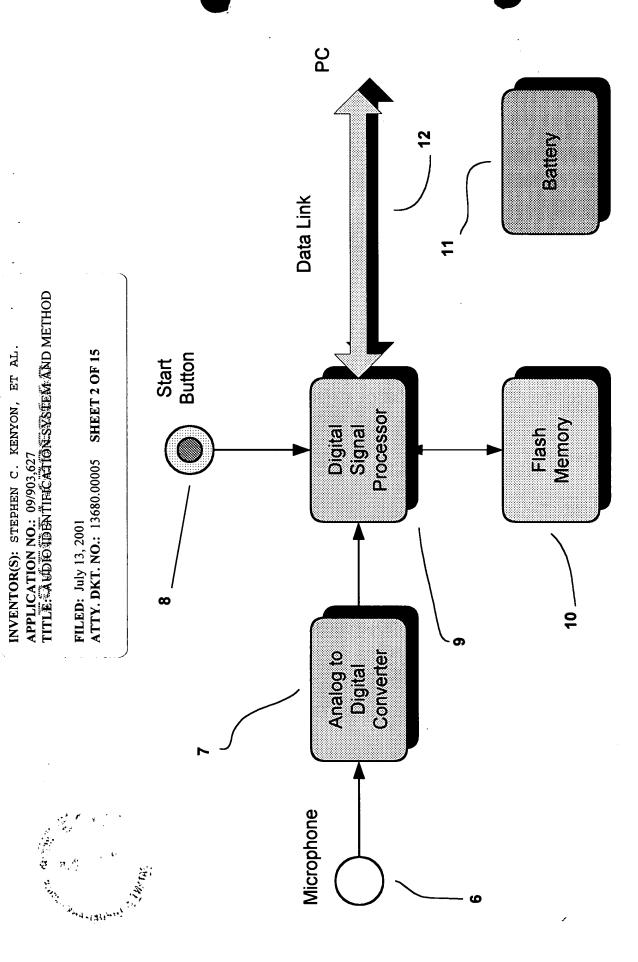
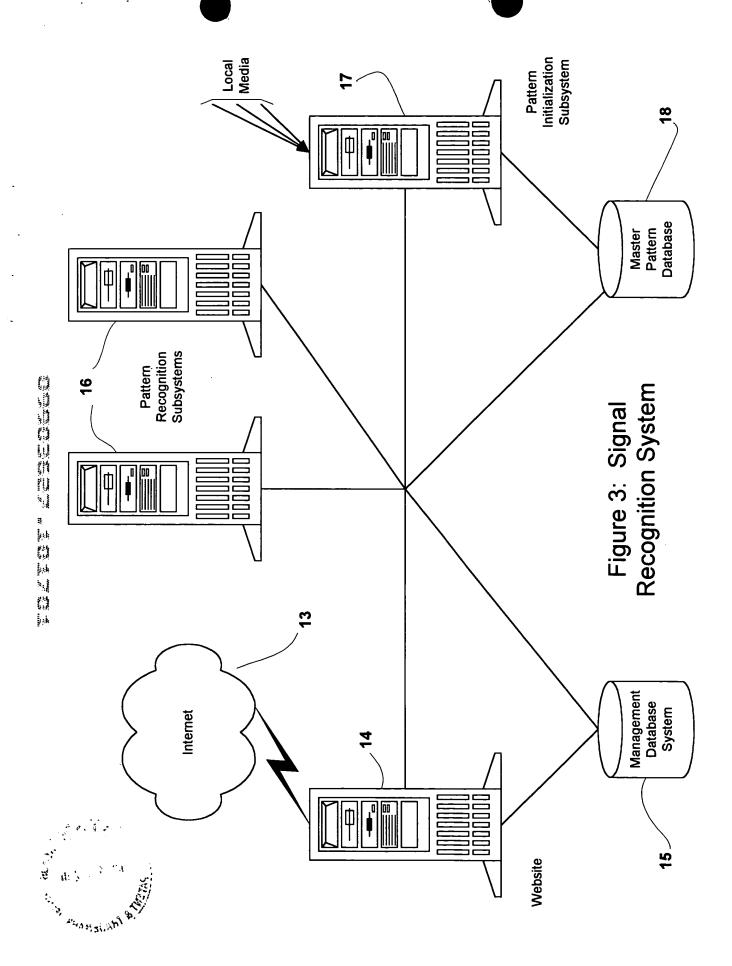
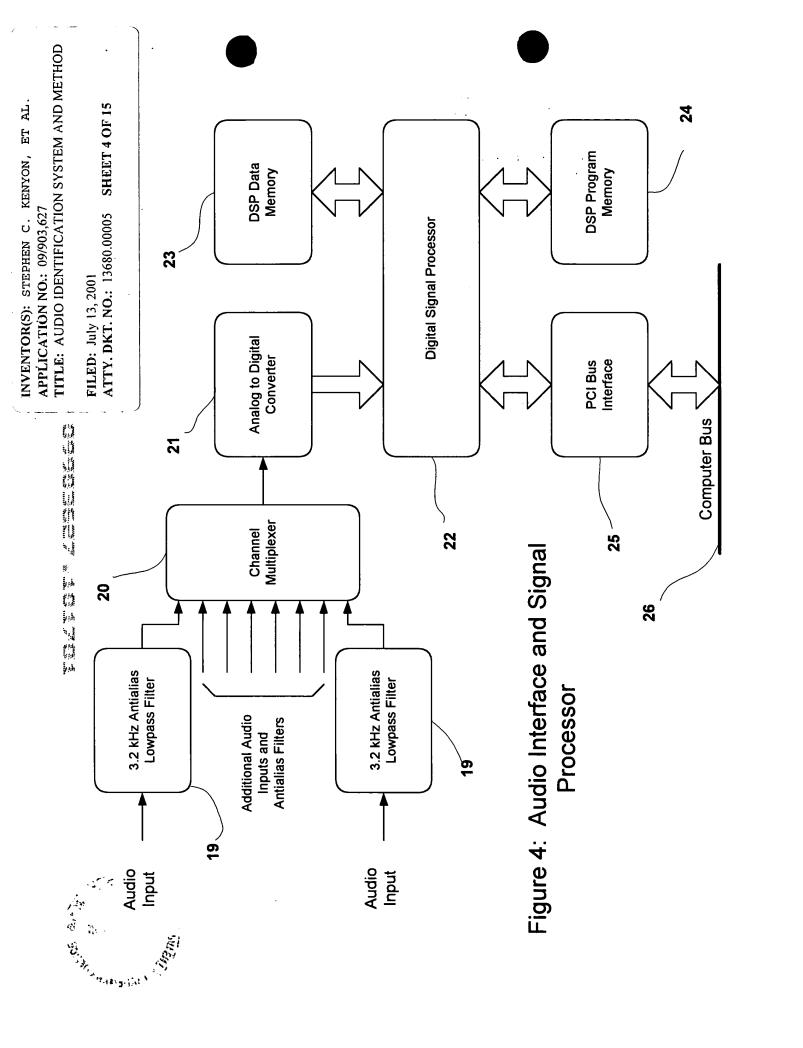


Figure 2: Typical Audio Capture Device





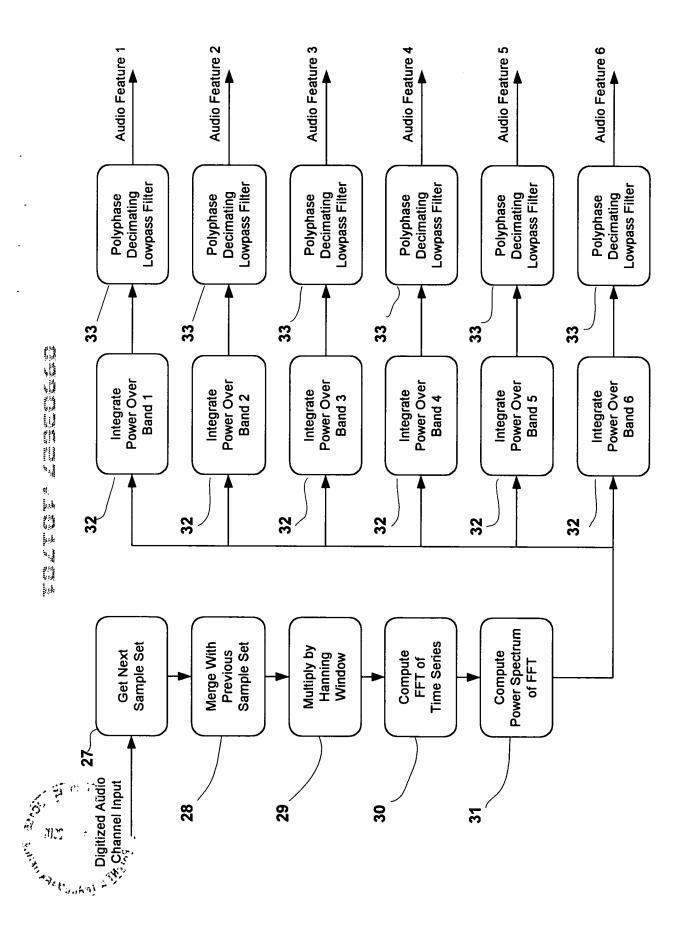


Figure 5: Audio Spectrum Analysis and Feature Extraction

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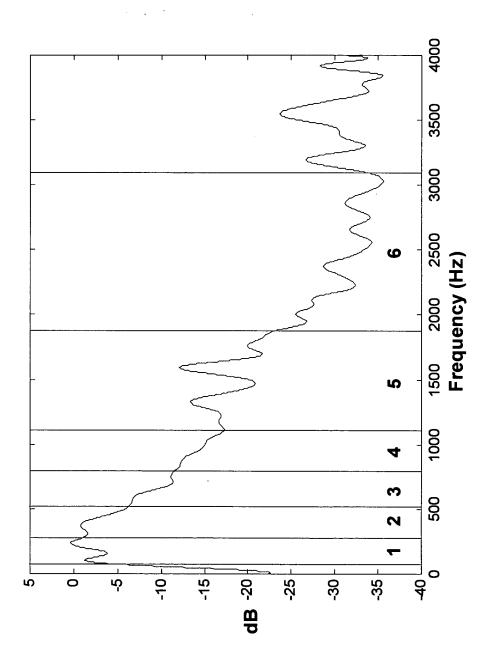


Figure 6: Audio Spectrum Analysis Bands

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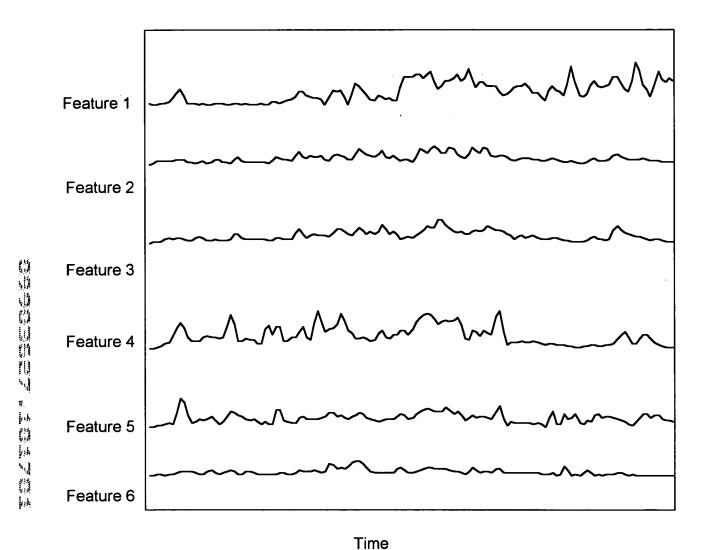


Figure 7: Example Feature Waveforms

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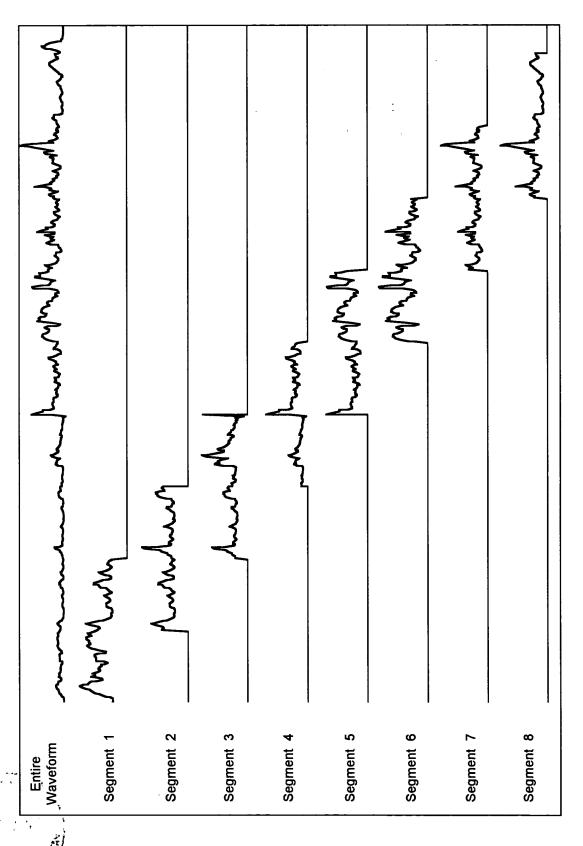


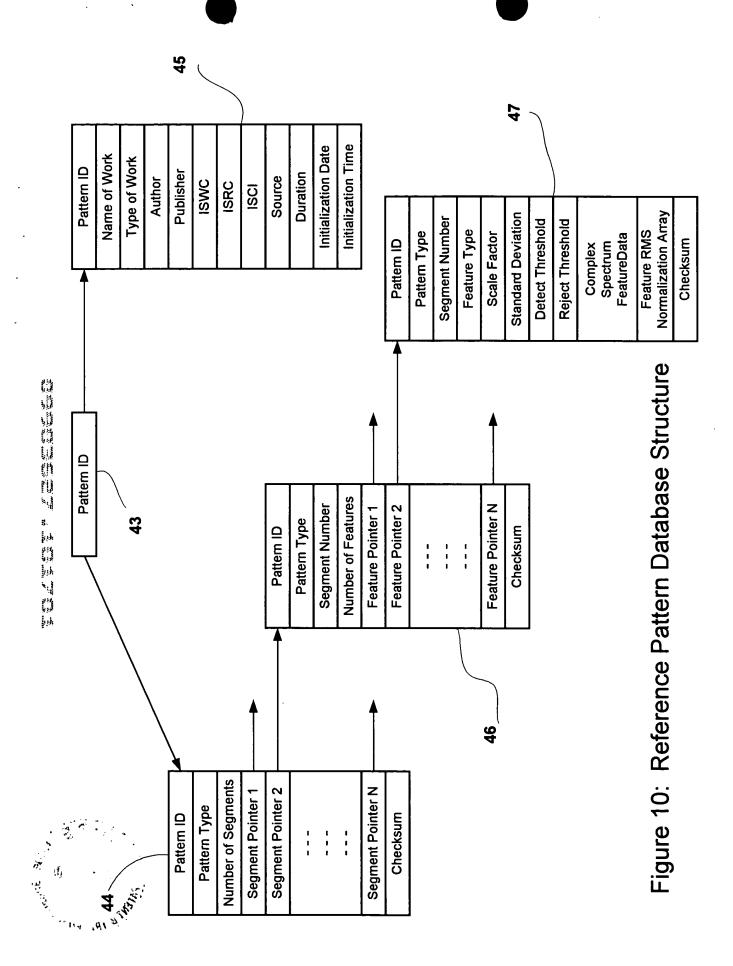
Figure 8: Reference Feature Waveform Segmentation

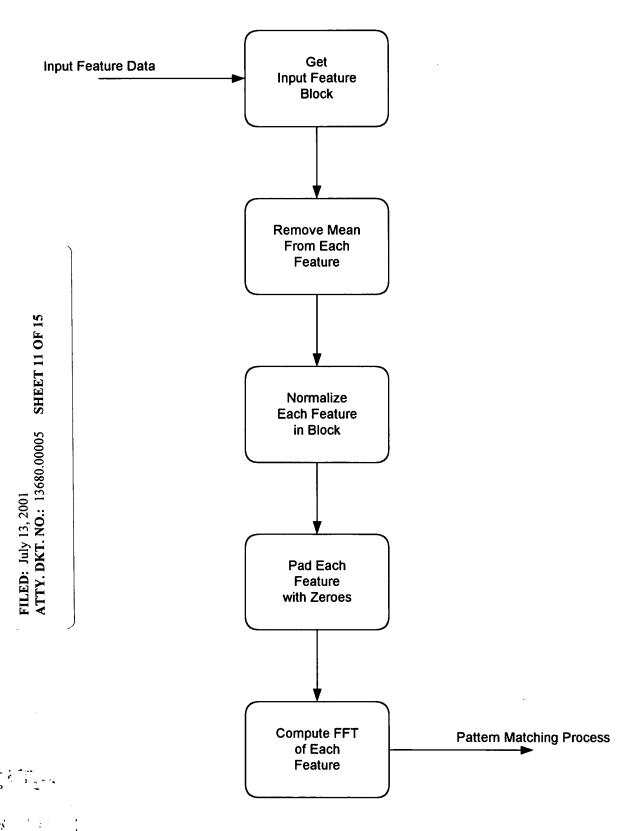
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 $j_{i} \downarrow j_{i}$

Figure 9: Reference Pattern Initialization





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Figure 11: Real-Time Feature Block Pre-Processing

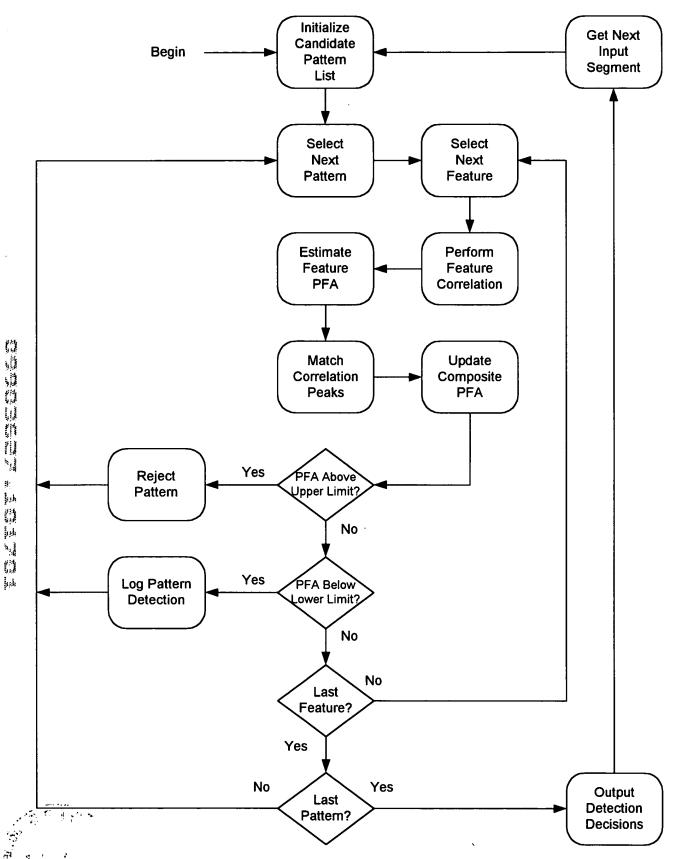
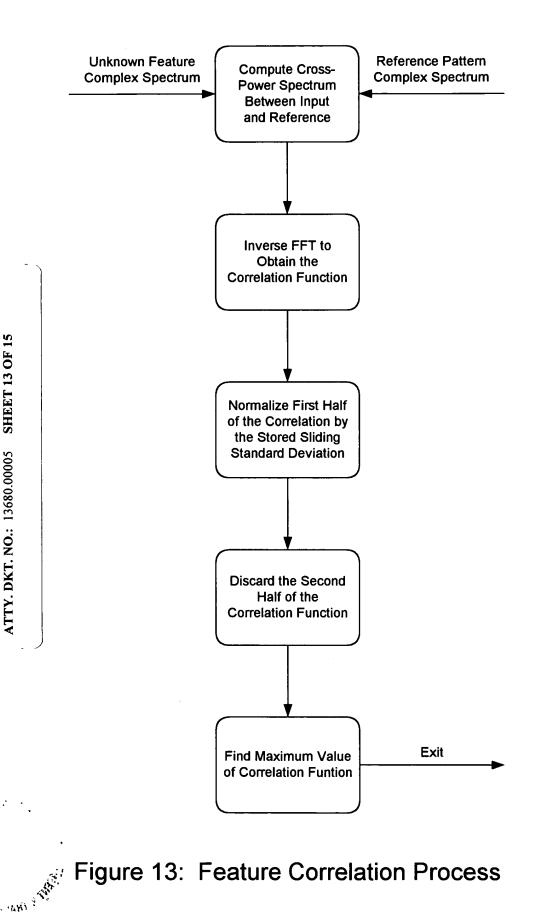
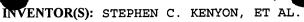


Figure 12: Multiple Feature Correlation Process





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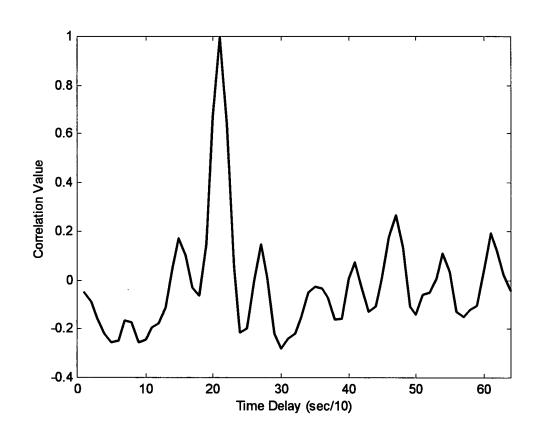


Figure 14: Example Feature Correlation Function

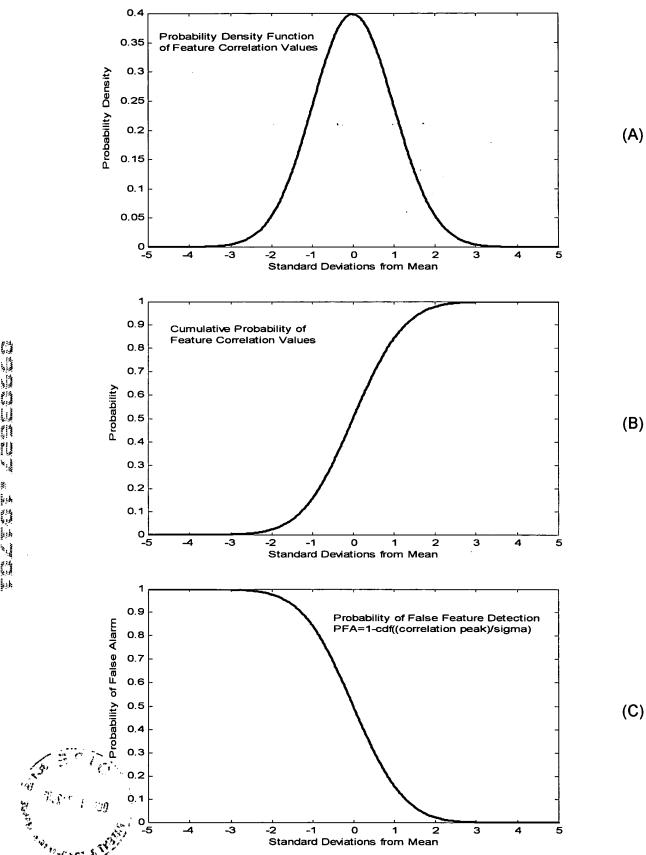


Figure 15: False Detection Estimation from Correlation Values